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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 09/941,044 08/28/2001 Charles C. Habeger JR. 7648.0022 5732 7590 **EXAMINER** 12/13/2004 Finnegan, Henderson, Farabow, VAN, QUANG T Garrett & Dunner, L.L.P. ART UNIT PAPER NUMBER 1300 I Street, N.W.

3742 DATE MAILED: 12/13/2004

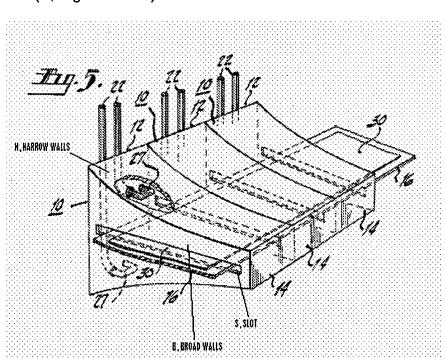
Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/941,044	HABEGER ET AL.
	Examiner	Art Unit
	Quang T Van	3742
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 22 October 2004.		
2a)⊠ This action is FINAL . 2b)□ This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)⊠ Claim(s) <u>1-9 and 17-19</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-8 and 17-19</u> is/are rejected.		
7)⊠ Claim(s) <u>9</u> is/are objected to.		
8) Claim(s) are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10)⊠ The drawing(s) filed on <u>11 January 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this National Stage		
application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.		
Attachment(s)		
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date		
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/C Paper No(s)/Mail Date 	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)
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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3, 6-8, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker (US 3,474,209) in view of Kinn (US 2,650,291). Parker discloses a dielectric heating having waveguide (10) comprising broad walls (B, Figure below) separated by and electromagnetically coupled with at least one narrow wall (N, Figure below) has a nonlinear profile. Parker also discloses the broad walls having a slot (S, Figure below).



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However, Park does not disclose discloses the broad walls having a slot at least partially off-center. Kinn discloses broad walls having a slot (11,13) at least partially off-center (the figure). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Parker a broad walls having a slot at least partially off-center as taught by Kinn in order to provide a uniform heating to the strip of material.

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- 3. Claims 2, 4-5 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker (US 3,474,209) in view of Kinn (US 2,650,291) and further in view of Soulier (US 3,784,777). Parker/Kinn disclose substantially all features of the claimed invention except said field modifier is adjustable. Soulier discloses, figure 3) a modifier is adjustable (18-18n). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Parker/Kinn a modifier is adjustable as taught by Soulier in order to adjust more or less concentrate the field in different areas and to uniform heat a sheet having non-constant thickness.
- 4. Claim 9 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not show or suggest said field modifier is configured to provide a relative slot height profile as define by

h (z)= (b/π)sin⁻¹[(1/sin²(πh₀/b)-2ωZε₀ε"_rtz/b)^{-1/2}] as recited in claim 9.

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Response to Amendment

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6. Applicant's arguments with respect to claims 1-9 and 17-19 have been considered but are most in view of the new ground(s) of rejection.

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang T Van whose telephone number is 571-272-4789. The examiner can normally be reached on 8:00Am 7:00Pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

OEV QV

December 7, 2004

Quang T Van

Primary Examiner

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